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DATE: Wednesday, September 15, 2004

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	L2	L1 and (freeze\$ or lyophili\$)	9
	L1	liposome same (hematoporphyrin or protoporphyrin)	21

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Search Results - Record(s) 1 through 21 of 21 returned.

☐ 1. Document ID: US 6620805 B1

Using default format because multiple data bases are involved.

L1: Entry 1 of 21

File: USPT

Sep 16, 2003

US-PAT-NO: 6620805

DOCUMENT-IDENTIFIER: US 6620805 B1

TITLE: Delivery of nucleic acids by porphyrins

DATE-ISSUED: September 16, 2003

INVENTOR - INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Takle; Garry B.

New York

NY

George; Shaji T.

New York

NY

US-CL-CURRENT: 514/185; 514/410, 514/44, 536/23.72

-													
	Full	Title	Citation	Front	Review	Classification	Date	Reference	beauthous.	THE OLD IN	Claims	KWIC	Drawt De
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☐ 2. Document ID: US 6540981 B2

L1: Entry 2 of 21

File: USPT

Apr 1, 2003

US-PAT-NO: 6540981

DOCUMENT-IDENTIFIER: US 6540981 B2

TITLE: Light imaging contrast agents

DATE-ISSUED: April 1, 2003

INVENTOR-INFORMATION:

Bacon; Edward Richard

NAME CITY STATE ZIP CODE COUNTRY Klaveness; Jo Nycoveien NO Fuglass; Bjorn Nycoveien NO Rongved; P.ang.1 Nycoveien NO Johannesen; Edvin Nycoveien NO Hendrichs; Paul Mark Wayne PA Gunther; Wolfgang Hans Heinrich Wayne PA

Wayne

PA

Apr 23, 2002

Toner; John Luke

McIntire; Gregory Lynn

Desai; Vinay C.

Wayne

PΑ

Wayne

PA

Phoenixville

PA

US-CL-CURRENT: 424/9.6; 424/9.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Semi-fact.	Arigidani anis	Claims	KWIC	Drawi De
	Parkanannini		·			**************************************						M. ST. VIII. S. VIIII. S. VIII. S. VIII. S. VIII. S. VIII. S. VIII. S. VIII. S. VIII
	3.	Docume	ent ID:	US 63	75930 B2							

File: USPT

US-PAT-NO: 6375930

L1: Entry 3 of 21

DOCUMENT-IDENTIFIER: US 6375930 B2

TITLE: Membrane incorporation of texaphyrins

DATE-ISSUED: April 23, 2002

INVENTOR-INFORMATION:

ZIP CODE COUNTRY CITY STATE NAME Young; Stuart W. Portola CA Wright; Meredith San Jose CA TXAustin Sessler; Jonathan L. CA Sunnyvale Mody; Tarak D. Cupertino CA Magda; Darren

US-CL-CURRENT: $\underline{424/9.362}$; $\underline{424/1.11}$, $\underline{424/1.65}$, $\underline{424/450}$, $\underline{424/9.1}$, $\underline{424/9.3}$, $\underline{540/1}$, $\underline{540/145}$, $\underline{544/1}$, $\underline{546/11}$

Full	Title Citatio	n Front	Review	Classification	Date	Reference	Ctorpools: Y	Whathher is	Claims	KWIC	Drawt De
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	4. Docum	nent ID:	US 62	70749 B1							
L1: E	Entry 4 of	21				File: U	JSPT		Aug	7,	2001

US-PAT-NO: 6270749

DOCUMENT-IDENTIFIER: US 6270749 B1

TITLE: Use of Texaphyrin in ocular diagnosis and therapy

DATE-ISSUED: August 7, 2001

INVENTOR - INFORMATION:

INVENTOR-INFORMATION.				
NAME	CITY	STATE	ZIP CODE	COUNTRY
Blumenkranz; Mark S.	Portola Valley	CA		
Woodburn; Kathryn W.	Sunnyvale	CA		
Miller; Richard A.	Portola Valley	CA		
Young; Stuart W.	Portola Valley	CA		

Page 3 of 10

CA

US-CL-CURRENT: 424/9.61; 424/9.6, 514/185, 514/912

Full Title Citation Front Review	Classification Date I	Reference 3.58	lades Augund	Claims KMC Draw. De
☐ 5. Document ID: US 626	9818 B1	v		
L1: Entry 5 of 21	1	File: USPT		Aug 7, 2001
US-PAT-NO: 6269818 DOCUMENT-IDENTIFIER: US 626981	8 B1			
TITLE: Photoactivation of endo	genous porphy:	rins for t	reatment of	psoriasis
DATE-ISSUED: August 7, 2001				•
INVENTOR-INFORMATION:				
NAME	CITY	STATE	ZIP CODE	COUNTRY
Lui; Harvey	Vancouver			CA
Macaulay; Calum	Vancouver			CA
Zeng; Haishan	Delta			CA
McLean; David I.	Vancouver			CA

US-CL-CURRENT: 128/898; 606/1, 607/88

Bissonnette; Robert Vancouver

Full Title Citation Front Review	Classification D	ate Referenc		i Placinitant	Claims KMC Draw De
☐ 6. Document ID: US 615	9445 A				
L1: Entry 6 of 21		File: U	SPT		Dec 12, 2000
US-PAT-NO: 6159445 DOCUMENT-IDENTIFIER: US 615944	5 A				
TITLE: Light imaging contrast	agents				
DATE-ISSUED: December 12, 2000					
INVENTOR-INFORMATION:					
NAME	CITY		STATE	ZIP CODE	COUNTRY
Klaveness; Jo	Oslo				NO
Fuglass; Bjorn	Oslo				NO
Rongved; P.ang.al	Oslo				NO
Johannesen; Edvin	Oslo				NO
Henrichs; Paul Mark	Wayne		PA		
Heinrich; Wolfgang Hans	Wayne		PA		
Bacon; Edward Richard	Wayne		PA		
Toner; John Luke	Wayne		PA		
McIntire; Gregory Lynn	Wayne		PA		

Record List Display Page 4 of 10

Desai; Vinay C.

Pheonixville

PΑ

US-CL-CURRENT: 424/9.6; 424/9.1, 600/314, 600/317, 600/473, 600/476

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Mission | Claims | KMC | Draw, De

☐ 7. Document ID: US 6100290 A

L1: Entry 7 of 21

File: USPT

Aug 8, 2000

US-PAT-NO: 6100290

DOCUMENT-IDENTIFIER: US 6100290 A

TITLE: Photodynamic therapy in selective cell inactivation in blood and treating

immune dysfunction diseases

DATE-ISSUED: August 8, 2000

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Levy; Julia G.

Vancouver

CA

North; Janice

Vancouver

CA

US-CL-CURRENT: 514/410; 514/885, 514/908, 604/4.01

Full | Title | Citation | Front | Review | Classification | Date | Reference | Scipulations | Witagain and Claims | KWIC | Draw, De

□ 8. Document ID: US 6074666 A

L1: Entry 8 of 21

File: USPT

Jun 13, 2000

US-PAT-NO: 6074666

DOCUMENT-IDENTIFIER: US 6074666 A

** See image for Certificate of Correction **

TITLE: Liposome compositions of porphyrin photosensitizers

DATE-ISSUED: June 13, 2000

INVENTOR-INFORMATION:

NAME

CITY

STATE ZIP CODE

COUNTRY

Desai; Narendra Raghunathji

Danbury

CT

Agha; Bushra J.

Durham

NC

Kale; Kalidas Madhavrao

Harriman

NY

US-CL-CURRENT: 424/450

Full Title Citation Front Review Classification Date Reference Securities Litation Claims KWC Draw De

☐ 9. Document ID: US 5807881 A

L1: Entry 9 of 21

File: USPT

Sep 15, 1998

US-PAT-NO: 5807881

DOCUMENT-IDENTIFIER: US 5807881 A

** See image for Certificate of Correction **

TITLE: Method for selectively reducing activated leukocyte cell population

DATE-ISSUED: September 15, 1998

INVENTOR - INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY Leong; Simon Vancouver CA Chan; Agnes How-Ching Port Moody CA Hunt; David William Carey White Rock CA Levy; Julia Vancouver CA Renke; Martin CA Burnaby

US-CL-CURRENT: 514/410; 514/885, 514/908, 604/6.08

Full	Title	Citation	Front	Review	Classification	Date	Reference	होता है। (हो प्रायक्त औ	gitti spiling pro	Claims	KWIC	Draw, De
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LJ	10.	Docum	ent ID): US 5	707608 A							
L1: E	ntry	10 of	21				File: U	SPT		Jan	13,	1998

US-PAT-NO: 5707608

DOCUMENT-IDENTIFIER: US 5707608 A

TITLE: Methods of making liposomes containing hydro-monobenzoporphyrin

photosensitizer

DATE-ISSUED: January 13, 1998

INVENTOR-INFORMATION:

NAME C

CITY

STATE

ZIP CODE

COUNTRY

Liu; Ron

North Chicago

ΙL

US-CL-CURRENT: 424/9.61; 424/9.1, 424/9.6

Full Title Citation Front Review Classifica	tion Date Reference Securities Atte	ochidents Claims KWC Draw.De
☐ 11. Document ID: US 5599831	A	
L1: Entry 11 of 21	File: USPT	Feb 4, 1997

US-PAT-NO: 5599831

DOCUMENT-IDENTIFIER: US 5599831 A

** See image for Certificate of Correction **

TITLE: Method of preparation of pharmaceutical compositions

DATE-ISSUED: February 4, 1997

INVENTOR-INFORMATION:

NAME

CITY

STATE ZIP CODE

COUNTRY

Poretz; Ronald D.

Chernomorsky; Simon A.

Marlboro NJ Morris Plains NJ 07746

07950

US-CL-CURRENT: 514/410; 424/450, 514/185, 530/359, 540/145

Full Title Citation Front Review Classification Date Reference Sequences Citation Claims KMC Draw. De

☐ 12. Document ID: US 5458595 A

L1: Entry 12 of 21

File: USPT

Oct 17, 1995

US-PAT-NO: 5458595

DOCUMENT-IDENTIFIER: US 5458595 A

TITLE: Vaginal speculum for photodynamic therapy and method of using the same

DATE-ISSUED: October 17, 1995

INVENTOR-INFORMATION:

NAME CITY

STATE ZIP CODE COUNTRY

CA

Tadir; Yona

Irvine

CA

Berns; Michael W.

Trabuco Canyon

CA CA

Monk; Brad J.
Profeta; Glen

Long Beach Rancho Santa Margarita

CA

Tromberg; Bruce J.

Irvine

CA

US-CL-CURRENT: 606/15; 600/220, 606/14

Full Title Citation Front Review Classification Date Reference Securities Attachnicins Claims KWIC Draw De

File: USPT

US-PAT-NO: 5389378

L1: Entry 13 of 21

DOCUMENT-IDENTIFIER: US 5389378 A

TITLE: Benzoporphyrin vesicles and their use in photodynamic therapy

DATE-ISSUED: February 14, 1995

INVENTOR-INFORMATION:

NAME

CITY

STATE ZIP CODE

COUNTRY

Feb 14, 1995

Madden; Thomas D.

Vancouver

CA

US-CL-CURRENT: 424/450; 428/402.2

Full Title Citation Front Review Classification Date Reference Securities State (1005) Claims KMC Draw De

☐ 14. Document ID: US 5238940 A

L1: Entry 14 of 21

File: USPT

Aug 24, 1993

US-PAT-NO: 5238940

DOCUMENT-IDENTIFIER: US 5238940 A

TITLE: Compositions for photodynamic therapy

DATE-ISSUED: August 24, 1993

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Liu; Daniel

Vancouver

CA CA

Jiang; Frank Hobbs; John

Vancouver Vancouver

CA

US-CL-CURRENT: 514/410; 514/2, 514/43, 540/145

Full | Title | Citation | Front | Review | Classification | Date | Reference | Section | Witashinsons | Claims | KMC | Draw, De

☐ 15. Document ID: US 5169944 A

L1: Entry 15 of 21

File: USPT

Dec 8, 1992

US-PAT-NO: 5169944

DOCUMENT-IDENTIFIER: US 5169944 A

** See image for Certificate of Correction **

TITLE: Methods and compositions for the enteral administration of hepatobiliary MRI contrast agents

DATE-ISSUED: December 8, 1992

INVENTOR - INFORMATION:

NAME

CITY

STATE ZIP CODE

COUNTRY

Nelson; James A.

Seattle

WA

Schmiedl; Udo P.

Kirkland Bothell AW AW

Teng; Linnar L.
Bommer; Jerry C.

Wellsville

UT

US-CL-CURRENT: 424/9.362; 424/9.36, 436/173, 540/145

Full Title Citation Front Review Classification Date Reference Sequences Witachinents Claims KWC Draw De

☐ 16. Document ID: US 5053423 A

L1: Entry 16 of 21

File: USPT

Oct 1, 1991

US-PAT-NO: 5053423

DOCUMENT-IDENTIFIER: US 5053423 A

TITLE: Compositions for photodynamic therapy

DATE-ISSUED: October 1, 1991

INVENTOR-INFORMATION:

NAME

CITY

STATE ZIP CODE

COUNTRY

Liu; Daniel Vancouver

CA

US-CL-CURRENT: 514/410; 514/2, 540/145

Full	Title	Citation	Front	Review	Classification	Date	Reference	មានសម្រាជ្យទីនេះ	Altabra i	Claims	KMC	Drawt De
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	17.	Docum	ent ID	: US 5	041078 A							

L1: Entry 17 of 21

File: USPT

Aug 20, 1991

US-PAT-NO: 5041078

DOCUMENT-IDENTIFIER: US 5041078 A

** See image for Certificate of Correction **

TITLE: Photodynamic viral deactivation with sapphyrins

DATE-ISSUED: August 20, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP	CODE	COUNTRY
Matthews; J. Lester	Dallas	TX			
Judy; Millard M.	Dallas	TX			
Newman; Joseph T.	Dallas	TX			
Sogandares-Bernal; Frank	Dallas	TX			
Sessler; Jonathan L.	Austin	TX			
Harriman; Anthony	Austin	TX			
Maiya; Bhaskar G.	Hyderabad				IN

US-CL-CURRENT: 604/6.08; 540/145

Full	Title	Citation	Front	Review	Classification	Date	Reference	D EQUEL S	Pharmaris	Claims	KWIC	Draw, De
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☐ 18. Document ID: US 5010073 A

L1: Entry 18 of 21

File: USPT

Apr 23, 1991

US-PAT-NO: 5010073

Record List Display Page 9 of 10

DOCUMENT-IDENTIFIER: US 5010073 A

TITLE: Use of liposomes as carriers for metalloporphyrins

DATE-ISSUED: April 23, 1991

INVENTOR - INFORMATION:

NAME

CITY

STATE ZIP CODE

COUNTRY

Kappas; Attallah

New York

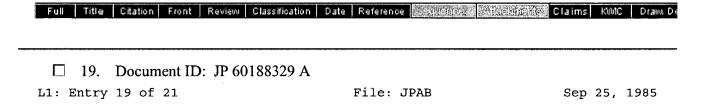
NY

Drummond; George S.

New York

NY

US-CL-CURRENT: 514/185; 424/450, 514/410, 514/493, 514/505



PUB-NO: JP360188329A

DOCUMENT-IDENTIFIER: JP 60188329 A

TITLE: TRANSFER ACCELERATOR FOR LIPOSOME INCLUSION SUBSTANCE

PUBN-DATE: September 25, 1985

INVENTOR-INFORMATION:

NAME

COUNTRY

IKEGAMI, SUSUMU

US-CL-CURRENT: <u>424</u>/<u>450</u>; <u>540</u>/<u>145</u> INT-CL (IPC): A61K 47/00; A61K 9/00

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. Docun	nent II	D: JP 6	0188329 A					
y 20 of	21			F	ile: DWPI	Sep	25,	1985
		. Document II		Document ID: JP 60188329 A				

DERWENT-WEEK: 198545

COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Agent for accelerating transfer of substance enclosed in liposome - contains

haemato-porphyrin deriv. as active component

PRIORITY-DATA: 1984JP-0043488 (March 7, 1984)

PATENT-FAMILY:

PUB-NO

PUB-DATE

LANGUAGE

PAGES

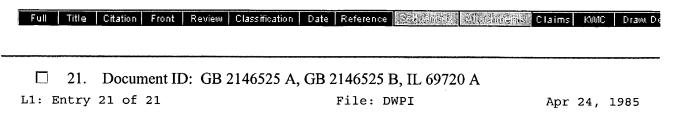
MAIN-IPC

JP 60188329 A

September 25, 1985

003

INT-CL (IPC): A61K 9/00; A61K 47/00



DERWENT-ACC-NO: 1985-101103

DERWENT-WEEK: 198517

COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Drug delivery system - comprises liposome(s) encapsulating anticancer agent

with porphyrin on surface

INVENTOR: MARGALIT, R

PRIORITY-DATA: 1983IL-0069720 (September 14, 1983)

PATENT-FAMILY:

 PUB-NO
 PUB-DATE
 LANGUAGE
 PAGES
 MAIN-IPC

 GB 2146525 A
 April 24, 1985
 011

 GB 2146525 B
 January 14, 1987
 000

 IL 69720 A
 August 31, 1987
 000

INT-CL (IPC): A61K 9/50; A61K 31/40; A61K 47/00; B01J 13/00

Full	Title	Citation	Front	Review	Classification	Date	Reference	The special section of the section o	"P"Magaa	Çāûs Cla	aims Ku	MC Dr	raw. Di
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L2: Entry 3 of 9

File: USPT

Jun 13, 2000

DOCUMENT-IDENTIFIER: US 6074666 A

** See image for Certificate of Correction **

TITLE: Liposome compositions of porphyrin photosensitizers

Brief Summary Text (2):

The invention relates to improved pharmaceutical formulations comprising liposomes incorporating porphyrin photosensitizers. Specifically, the invention is directed to a <u>freeze-dried</u> pharmaceutical formulation comprised of a porphyrin photosensitizer, a disaccharide or polysaccharide and one or more phospholipids which, upon reconstitution with a suitable aqueous vehicle, forms liposomes containing the porphyrin photosensitizer. Particular porphyrin photosensitizers which are advantageously employed in the practice of this invention include the hydro-monobenzoporphyrins having a light absorption maxima in the range of 670-780 nanometers. The photosensitizing formulations are useful to mediate the destruction of unwanted cells or tissues or other undesirable materials by irradiation or to detect their presence through flourescence.

Brief Summary Text (12):

Accordingly, hematoporphyrin and hematoporphyrin dimethylester have been formulated in unilamellar vesicles of dipalmitoyl-phosphatidyl choline (DPPC) and liposomes of dimyristoyl (DMPC) and distearoyl-phosphatidyl choline (DSPC). Zhou et al., supra; Ricchelli, F., New Directions in Photodynamic Therapy, (1987) 847: 101-106; Milanesi, C., Int. J. Radiat. Biol., (1989) 55: 59-69. Similarly, HP, Photofrin.RTM. porfimer sodium, and tetrabenzo-porphyrins have been formulated in liposomes composed of egg phosphatidyl choline (EPC). Johnson, F. M. et., Proc. Photodynamic Therapy: Mechanisms II, (1990), Proc. SPIE-Int. Soc. Opt. Eng., 1203: 266-80.

Brief Summary Text (15):

The present invention involves a <u>freeze</u> dried pharmaceutical formulation comprising a porphyrin photosensitizer, a disaccharide or polysaccharide, and one or more phospholipids, which <u>freeze-dried</u> formulation forms liposomes containing a therapeutically effective amount of the porphyrin photosensitizer upon reconstitution with a suitable aqueous vehicle. The invention also relates to the liposome composition formed upon reconstitution with said aqueous vehicle.

Detailed Description Text (2):

The present invention relates to a pharmaceutical liposome formulation of a porphyrin photosensitizer for use in the photodynamic therapy or diagnosis of tumors, or for a variety of other therapeutic applications. The liposomes are formed upon addition of an aqueous vehicle to a freeze-dried formulation of a porphyrin photosensitizer, a disaccharide or polysaccharide, and one or more phospholipids such as phosphatidyl cholines or phosphatidyl glycerols. The presence of the disaccharide or polysaccharide in the formulation yields liposomes which have extremely small and narrow particle size, in which the porphyrin photosensitizers may be stably incorporated into the liposome in an efficient manner with encapsulation efficiency approaching 80-100% of the drug. The liposomes exhibit physical and chemical stability such that they retain incorporated porphyrin drugs without leakage upon prolonged storage, as either a reconstituted liposomal suspension or cryodesiccated powder. For example, BPD-MA, a preferred

porphyrin photosensitizer, maintained its potency in the cryodesiccated liposome formulation for a period of at least nine months at room temperature and had a projected shelf life of at least two years.

Detailed Description Text (4):

Liposomes containing a selected porphyrin photosensitizer as described herein may be prepared by dissolving the porphyrin photosensitizer, the phospholipids and other optional adjuvants such as antioxidants in methylene chloride or other suitable organic solvents. The resulting solution is dried under vacuum until the organic solvent is evaporated. The solid residue is dispersed in an aqueous solution of the disaccharide or polysaccharide and homogenized. The solution is then freeze dried for storage and reconstituted prior to administration with a suitable aqueous vehicle such as sterile water for injection. Upon reconstitution, liposomes are formed which incorporate a therapeutically effective amount of the porphyrin photosensitizer.

Detailed Description Text (12):

Such liposomes are typically administered parenterally. Injection may be intravenous, subcutaneous, intramuscular, intrathecal, or even intraperitoneal. The liposomes could be administered by aerosol intranasaly or intrapulmonarily. The <u>freeze</u> dried powder may be packed in vials for reconstitution with sterile water prior to injection. Of course, these compositions may also contain minor amounts of nontoxic, auxiliary substances such as pH buffering agents and the like.

Detailed Description Text (18):

Either unilamellar or multilamellar or other types of liposomes may be used in the practice of the present invention. They may be prepared in a suspension form or may be formed upon reconstitution of a <a href="https://liposomes.nih.google.com/li

Detailed Description Text (23):

BPD-MA, butylated hydroxytoluene, ascorbyl palmitate and the phospholipids are dissolved in methylene chloride and the solution is filtered through a 0.22 micron filter. The solution is then dried under vacuum using a rotary evaporator until the methylene chloride level in the solid residue is not detectable by gas chromatography. A 10% lactose/water for injection solution is then prepared and filtered through a 0.22 micron filter. The lactose/water solution is warmed to about 35.degree. C. and added to the flask containing the solid residue of the photosensitizer/phospholipid. The solid residue is dispersed in the 10% lactose/water solution and stirred for about one hour, cooled, and passed through a homogenizer. The solution is then filtered through a 0.22 micron Durapore.RTM. hydrophilic filter. Optionally, the solution may first be prefiltered with a 5.0 micron prefilter. The filtrate is collected, filled into vials and freeze dried and stored under refrigeration. The freeze dried composition is reconstituted with water for injection prior to administration.

Other Reference Publication (2):

Ricchelli, F., et al., "Porphyrins as fluorescent probes for monitoring phase transitions of lipid domains in biological membranes. Factors influencing the microenvironment of haematoporphyrin and protoporphyrin in liposomes," Journal of Photochemistry and Photobiology B:Biology (1995) 29:65-70.

CLAIMS:

8. A liposomal formulation according to claim 5 that is freeze-dried.

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L2: Entry 4 of 9

File: USPT

Jan 13, 1998

DOCUMENT-IDENTIFIER: US 5707608 A

TITLE: Methods of making liposomes containing hydro-monobenzoporphyrin

photosensitizer

Brief Summary Text (11):

Accordingly, hematoporphyrin and hematoporphyrin dimethyl esters have been formulated in unilamellar vesicles of dipalmitoyl phosphatidyl choline (DPPC) and liposomes of dimyristoyl (DMPC) and distearoyl phosphatidyl choline (DSPC). Zhou et al., supra; Ricchelli, New Directions in Photodynamic Therapy, 847:101-106 (1987); Milanesi, Int. J. Radiat. Biol., 55:59-69 (1989). Similarly, HP, Photofrin.RTM., porfimer sodium, and tetrabenzoporphyrins have been formulated in liposomes composed of egg phosphatidyl choline (EPC). Johnson et al., Proc. Photodynamic Therapy: Mechanisms II, Proc. SPIE-Int. Soc. Opt. Eng., 1203:266-80 (1990). Further, freeze-dried pharmaceutical formulations comprising a porphyrin photosensitizer, a disaccharide or polysaccharide, and one or more phospholipids (such as EPG and DMPC) have been made. These formulations form liposomes containing an effective amount of porphyrin photosensitizer upon reconstitution with a suitable aqueous vehicle and are described in Desai et al., copending U.S. application Ser. No. 08/489,850 filed 13 Jun. 1995.

Detailed Description Text (26):

Any cryoprotective agent known to be useful in the art of preparing <u>freeze-dried</u> formulations, such as di- or polysaccharides or other bulking agents such as lysine, may be used in the claimed invention. Further, isotonic agents typically added to maintain isomolarity with body fluids may be used. In a preferred embodiment, a di-saccharide or polysaccharide is used and functions both as a cryoprotective agent and as an isotonic agent.

<u>Detailed Description Text</u> (65):

(15) Freeze-drying.

Detailed Description Text (66):

Freeze-drying

Detailed Description Text (67):

Once formulated, the liposome composition of the invention may be freeze-dried for long-term storage if desired. For example, BPD-MA, a preferred hydro-monobenzoporphyrin photosensitizer, has maintained its potency in a cryodesiccated liposome composition for a period of at least nine months at room temperature, and a shelf life of at least two years has been projected. If the composition is freeze-dried, it may be packed in vials for subsequent reconstitution with a suitable aqueous solution, such as sterile water or sterile water containing a saccharide and/or other suitable excipients, prior to administration, for example, by injection.

Detailed Description Text (68):

Preferably, liposomes that are to be <u>freeze-dried</u> are formed upon the addition of an aqueous vehicle contain a disaccharide or polysaccharide during hydration. The composition is then collected, placed into vials, <u>freeze-dried</u>, and stored, ideally under refrigeration. The <u>freeze-dried</u> composition can then be reconstituted by

simply adding water for injection just prior to administration.

Detailed Description Text (76):

Generally speaking, the concentration of the hydro-monobenzoporphyrin photosensitizer in the liposome depends upon the nature of the photosensitizer used. When BPD-MA is used, for example, the photosensitizer is generally incorporated in the liposomes at a concentration of about 0.10% up to 0.5% w/v. If freeze-dried and reconstituted, this would typically yield a reconstituted solution of up to about 5.0 mg/ml photosensitizer.

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1. Document ID: US 6375930 B2

Using default format because multiple data bases are involved.

L2: Entry 1 of 9

File: USPT

Apr 23, 2002

US-PAT-NO: 6375930

DOCUMENT-IDENTIFIER: US 6375930 B2

TITLE: Membrane incorporation of texaphyrins

DATE-ISSUED: April 23, 2002

INVENTOR - INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY Young; Stuart W. Portola CA Wright; Meredith San Jose CA Sessler; Jonathan L. Austin TXSunnyvale Mody; Tarak D. CA Magda; Darren Cupertino CA

US-CL-CURRENT: $\underline{424}/\underline{9.362}$; $\underline{424}/\underline{1.11}$, $\underline{424}/\underline{1.65}$, $\underline{424}/\underline{450}$, $\underline{424}/\underline{9.1}$, $\underline{424}/\underline{9.3}$, $\underline{540}/\underline{1}$, $\underline{540}/\underline{145}$, $\underline{544}/\underline{1}$, $\underline{546}/\underline{11}$

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences:	A RECENTION OF	Claims	KWIC	Draw, De
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☐ 2. Document ID: US 6270749 B1

L2: Entry 2 of 9

File: USPT

Aug 7, 2001

US-PAT-NO: 6270749

DOCUMENT-IDENTIFIER: US 6270749 B1

TITLE: Use of Texaphyrin in ocular diagnosis and therapy

DATE-ISSUED: August 7, 2001

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Blumenkranz; Mark S. Portola Valley CA Woodburn; Kathryn W. Sunnyvale CA Miller; Richard A. Portola Valley CA

Young; Stuart W. Portola Valley CA

US-CL-CURRENT: 424/9.61; 424/9.6, 514/185, 514/912

Full Title Citation Front Review Classification Date Reference Capterines All Divisions Claims KWIC Draws De 3. Document ID: US 6074666 A

L2: Entry 3 of 9 File: USPT Jun 13, 2000

US-PAT-NO: 6074666

DOCUMENT-IDENTIFIER: US 6074666 A

** See image for Certificate of Correction **

TITLE: Liposome compositions of porphyrin photosensitizers

DATE-ISSUED: June 13, 2000

INVENTOR - INFORMATION:

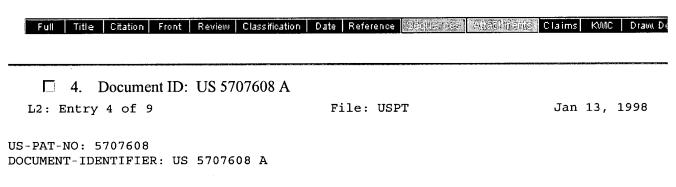
NAME CITY STATE ZIP CODE COUNTRY

CT

Desai; Narendra Raghunathji Danbury

Agha; Bushra J. Durham NC Kale; Kalidas Madhavrao Harriman NY

US-CL-CURRENT: 424/450



TITLE: Methods of making liposomes containing hydro-monobenzoporphyrin

photosensitizer

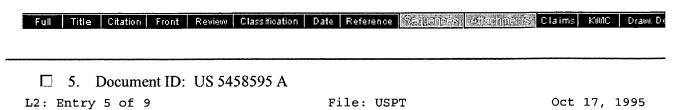
DATE-ISSUED: January 13, 1998

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Liu; Ron North Chicago II

US-CL-CURRENT: 424/9.61; 424/9.1, 424/9.6



US-PAT-NO: 5458595

DOCUMENT-IDENTIFIER: US 5458595 A

TITLE: Vaginal speculum for photodynamic therapy and method of using the same

DATE-ISSUED: October 17, 1995

INVENTOR-INFORMATION:

NAME CITY

STATE ZIP CODE COUNTRY

Tadir; Yona

Irvine

CA

Berns; Michael W.

Trabuco Canyon

CA

Monk; Brad J.

Long Beach

CA

Profeta; Glen

Tromberg; Bruce J.

Rancho Santa Margarita Irvine CA CA

US-CL-CURRENT: 606/15; 600/220, 606/14

Full	Title Cit	ation Front	Review	Classification	Date	Reference	Sequences	Alicelinal a	Claims	KMC	Drawi De
		- Angelia (m. 1904)	*								
	6. Doc	ument ID:	US 53	89378 A							
L2: E	Entry 6	of 9			Fi	ile: USF	т		Feb	14,	1995

US-PAT-NO: 5389378

DOCUMENT-IDENTIFIER: US 5389378 A

TITLE: Benzoporphyrin vesicles and their use in photodynamic therapy

DATE-ISSUED: February 14, 1995

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Madden; Thomas D.

Vancouver

CA '

US-CL-CURRENT: 424/450; 428/402.2

Full Title Citation Front Review Classifica	ation Date Reference Sequences	Attachments Claims KMC Draw De
☐ 7. Document ID: US 5238940 A	A	
L2: Entry 7 of 9	File: USPT	Aug 24, 1993

US-PAT-NO: 5238940

DOCUMENT-IDENTIFIER: US 5238940 A

TITLE: Compositions for photodynamic therapy

DATE-ISSUED: August 24, 1993

INVENTOR-INFORMATION:

Page 4 of 5

NAME CITY STATE ZIP CODE COUNTRY

Liu; Daniel Vancouver CA
Jiang; Frank Vancouver CA
Hobbs; John Vancouver CA

US-CL-CURRENT: 514/410; 514/2, 514/43, 540/145

Full Title Citation Front Review Classification Date Reference Claims RMC Draw De

8. Document ID: US 5053423 A

L2: Entry 8 of 9 File: USPT Oct 1, 1991

US-PAT-NO: 5053423

DOCUMENT-IDENTIFIER: US 5053423 A

TITLE: Compositions for photodynamic therapy

DATE-ISSUED: October 1, 1991

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Liu; Daniel Vancouver CA

US-CL-CURRENT: 514/410; 514/2, 540/145

Full	Title	Citation	Front	Review	Classification	Date	Reference	Saguanes ?	Alise Interis	Claims	KWIC	Drawt De
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	9. 1	Jocume	nt ID:	US 50	41078 A							
L2: E	Entry	9 of 9)			F	ile: USF	T		Aug	20,	1991

US-PAT-NO: 5041078

DOCUMENT-IDENTIFIER: US 5041078 A

** See image for Certificate of Correction **

TITLE: Photodynamic viral deactivation with sapphyrins

DATE-ISSUED: August 20, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Matthews; J. Lester	Dallas	TX		
Judy; Millard M.	Dallas	TX		
Newman; Joseph T.	Dallas	TX		
Sogandares-Bernal; Frank	Dallas	TX		
Sessler; Jonathan L.	Austin	TX		
Harriman; Anthony	Austin	TX		
Maiya; Bhaskar G.	Hyderabad			IN

US-CL-CURRENT: 604/6.08; 540/145

Full	Title	Citation	Front	Review	Classification	Date	Reference	adappendas.	Alta Shinistika	Claims	KWIC	Draw, De
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	Ter	ms						Do	ocuments			
	L1	and (fre	eze\$ o	r lyoph	ili\$)						9	

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